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### LIST OF

## BULLETINS AND CIRCULARS

ISSUED BY THE

# U. S. DEPARTMENT OF AGRICULTURE

AND

AVAILABLE FOR FREE DISTRIBUTION.

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# United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., January 1, 1902.

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#### BULLETINS AND CIRCULARS FOR FREE DISTRIBUTION.

#### FARMERS' BULLETINS.

No. 16.—Leguminous Plants for Green Manuring and for Feeding. Pp. 24.

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No. 21.—Barnyard Manure. Pp. 32, figs. 7.

CONTENTS: Manure as a farm resource—Amount, value, and composition of manures produced by different animals—Influence of age and kind of animal, of quality and quantity of food, of the nature and proportion of litter—Management and use of manure—Lasting or cumulative effect of barnyard manure.

No. 22.—The Feeding of Farm Animals. Pp. 32.

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No. 25.—Peanuts: Culture and Uses. Pp. 24, fig. 1.

CONTENTS: Description and history—Composition—Varieties—Climate and soil suitable for peanut culture—Manuring—Culture—Harvesting—Uses.

No. 27.—Flax for Seed and Fiber in the United States. Pp. 16.

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3 L No. 28.—Weeds: And How to Kill Them. Pp. 32, figs. 11.

CONTENTS: General methods of eradicating weeds—List of weeds attracting special attention during 1894—Table of one hundred weeds.

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No. 31.—Alfalfa, or Lucern. Pp. 24, figs. 3.

Contents: Name—History—Description—Varieties—Habits of growth—Preparation of the soil—Sowing the seed—Alfalfa hay—Feeding value—Soiling vs. pasturing—Alfalfa for hogs—Alfalfa in the orchard—Chemical composition—Alfalfa as a soil renovator—Destroying alfalfa—Enemies of alfalfa.

No. 32.—Silos and Silage. Pp. 32, figs. 10.

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No. 33.—Peach Growing for Market. Pp. 24, figs. 21.

CONTENTS: Where peaches can be grown—Planting within easy reach of large markets—Extent of peach lands in the United States—Planting and cultivation of the orchard—Pruning—Fertilizers—Fungous diseases and insect pests—Spraying, washing, etc.—Picking and marketing the fruit—Gluts in the market—Hindrances to profitable peach culture.

No. 34.—Meats: Composition and Cooking. Pp. 29, figs. 4.

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No. 36.—Cotton Seed and Its Products. Pp. 16.

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No. 38.—Spraying for Fruit Diseases. Pp. 12, figs. 6.

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No. 43.—Sewage Disposal on the Farm and the Protection of Drinking Water. Pp. 20, figs. 8.

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No. 45.—Some Insects Injurious to Stored Grain. Pp. 24, figs. 18.

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No. 46.—Irrigation in Humid Climates. Pp. 27, figs. 4.

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No. 47.—Insects Affecting the Cotton Plant. Pp. 32, figs. 18.

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No. 51.—Standard Varieties of Chickens. Pp. 48, figs. 42.

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No. 52.—The Sugar Beet. Pp. 48, figs. 24.

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No. 106.—Breeds of Dairy Cattle. Pp. 48, figs. 21.

Give names, numbers, history, descriptions and illustrations of all the principal breeds of dairy cattle in the United States.

No. 107.—Experiment Station Work—XIII. Pp. 32, figs. 3.

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CONTENTS: Propagation—Selection of varieties—Planting, cultivation, and fertilizing—Pruning—Trellises and systems of training—Insect enemies and fungous diseases.

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Contents: Storing apples without ice—Cold storage on the farm—Mechanical cold storage for fruit—Keeping qualities of apples—Improvement of blueberries—Transplanting muskmelons—Banana flour—Fresh and canned tomatoes—Purslane—Mutton sheep—Effect of cotton-seed meal on the quality of butter—Grain feed of milch cows—Protection against Texas fever.

No. 120.—The Principal Insects Affecting the Tobacco Plant. Pp. 32, figs. 25.

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Contents. Liming grass lands—Early plowing for fall wheat—Grafting grape cuttings—Olives—Nuts as food—Coffee substitutes—The working of a pure-food law—Feeding moldy corn—Selling eggs by weight—Flavor of eggs—Unfermented grape juice.

No. 123.—Red Clover Seed: Information for Purchasers. Pp. 11, figs. 2.

Contents: Selection of seed—European as compared with American seed—Determination of quality—Adulterants—Germination—Testing—Cuttings and yield.

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Contents: Distilled drinking water—Soil inoculation—Treatment of sandy soils—Lime as a fertilizer—Fertilizers for market-garden crops—Pecan culture—Weed destruction—Maple sirup and sugar—Value of cotton seed—Alfalfa silage—Forage crops for pigs—Grazing steers—Type of the dairy cow.

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Contents: The chinch bug; preventives and remedies—The Hessian fly; preventive and remedial measures—The wheat midge, preventives—The wheat plant-louse—The wheat straw-worms—The army worms—The wheat sawflies.

No. 133.—Experiment Station Work—XVIII. Pp. 32, figs. 14.

CONTENTS: Value of stable manure—Alfalfa as a fertilizer—Liming acid soils—Celery culture—The greenhouse in summer—Frost-resisting straw-berries—Fumigator for fruit trees—Foundation in comb building—Ridding houses of flies—Slop for pigs—Profitable crops for pigs—Barley for horses—Water in butter—Losses in the silo.

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Contents: Chemical composition of the body and food—Food as building material and fuel—How the functions and nutritive value of food are learned—Food as a source of energy—Composition of common food materials—Digestion, assimilation, and excretion—Preparation of food—Dietaries and dietary standards—Adapting food to the needs of the body—Advantages of several meals a day—Pecuniary economy of food—Errors in our food economy.

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WASHINGTON, D. C., September 30, 1902.

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[September, 1002.]

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#### NEW PUBLICATIONS.

State and Territorial Laws Relating to Contagious and Infectious Diseases of animals. 1901. Pp. 72. (Bulletin No. 43, Bureau of Animal Industry.) Price 5 cents.

The Chemical Composition of Insecticides and Fungicides, with an Account of the Methods of Analysis Employed by J. K. Haywood, Chief of Insecticide and Agricultural Water Laboratory. In cooperation with the Division of Entomology. Pp. 62, fig. 1. (Bulletin No. 68, Bureau of Chemistry.) Price 5 cents.

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(Bull. No. 35, n. s., Division of Entomology.) Price 10 cents.

An Index to Bulletins Nos. 1-30 (new series) (1896-1901) of the Division of Entomology. Compiled under the direction of the Entomologist, by Nathan Banks, Assistant Entomologist. Pp. 64. (Bull. No. 36, n. s., Division of Entomology.) Price 5 cents.

Proceedings of the Fifteenth Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, Held at Washington, D. C., November 12-14, 1901. Edited by A. C. True and W. H. Beal, for the Office of Experiment Stations, and H. C. Goodell, for the Executive Committee of the Associa-Pp. 134, charts 8, fig. 1. (Bulletin No. 115, Office of

Experiment Stations.) Price 10 cents.

Dietary Studies in New York City in 1896 and 1897. By W. O. Atwater, Ph. D., Professor of C emistry, Wesleyan University; Chief of Nutrition Investigations, Office of Experiment Stations, and A. P. Bryant, M. S., Assistant in Nutrition Investigations. Pp. 83. (Bulletin No. 116, Office of Experiment Stations.) Price

5 cents.

Experiments on the Effect of Muscular Work upon the Digestibility of Food and the Metabolism of Nitrogen. Conducted at the University of Tennessee, 1899-1900. By Chas. E. Wait, Ph. D., F. C. S., Professor of Chemistry at the University of Tennessee. Pp. 43. (Bulletin No. 117, Office of Experiment Stations.) Price 5 cents.

Experiment Station Record. Vol. XIII, No. 11. E. W. Allen,

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- Spanish Almonds and Their Introduction into America. By David G. Fairchild, Agricultural Explorer, Seed Introduction and Distribution. Pp. 16, frontispiece, pls. 7. (Bulletin No. 26, Bureau of Plant Industry.) Price 15 cents.
- Message from the President of the United States, Transmitting a Report of the Secretary of Agriculture in Relation to the Forests, Rivers and Mountains of the Southern Appalachian Region. Pp. 210, pls. 78. (Senate Doc. No. 84, 51st Congress, 1st sess.) Price cloth \$1.20, paper \$1.10. Distribution by Congressmen.

Monthly List of Publications. 181 August, 1902, Pp. 7. (No. 445,

Division of Publications.)

- Publications of the U.S. Department of Agriculture, for sale by the Superintendent of Documents, Union Building, Washington, D. C. Corrected to August 1, 1902. Pp. 45. (No. 179, Division of Publications.) 9th edition.
- Crop Reporter, Vol. 4, No. 5. Published by the U. S. Department of Agriculture under the supervision of the Statistician.

A three-column quarto publication devoted to agricultural topics.

#### REPRINTS.

Contributions from the U.S. National Herbarium. Vol. VII, No. 1. Monograph of the North American Umbelliferæ. By John M. Coulter and J. N. Rose. Pp. 256, vii, pls. 9, figs. 65. Price 20 cents.

Foods and Food Adulterants. Investigations made under direction of H. W. Wiley, Chief of the Bureau of Chemistry. By W. D. Bigelow, with the collaboration of Edward Mackay Chace, L. S. Munson, L. M. Tolman, and others. Part Tenth. Preserved Meats. Pp. ix, 1375-1517, figs. 3. (Bulletin No. 13, Bureau of Chemistry.) Price 10 cents.

Methods of Analysis Adopted by the Association of Official Agricultural Chemists, November 11, 12, and 14, 1898. Edited by Harvey W. Wiley, Secretary. Pp. 86, figs. 4. (Bulletin No. 46,

Revised edition, Division of Chemistry.) Price 5 cents.

Proceedings of the Seventeenth Annual Convention of 'the Association of Official Agricultural Chemists, Held at Washington, D. C., November 16, 17, and 19, 1900. Edited by Harvey W. Wiley, Secretary of the Association. Pp. 163, pls. 2. (Bulletin No. 62, Division of Chemistry.) Price 10 cents.

Provisional Methods for the Analysis of Foods Adopted by the Association of Official Agricultural Chemists, November 14-16, Edited by H. W. Wiley, Secretary, with the collaboration of W. D. Bigelow, Referee on Food Adulteration. Pp. 169, figs. 7. (Bulletin No. 65, Bureau of Chemistry.) Price 10 cents.

Proceedings of the Eighteenth Annual Convention of the Association of Agricultural Chemists Held at Washington, D. C., November 14, 15, and 16, 1901. Edited by Harvey W. Wiley, Secretary of the Association. Pp. 184, frontispiece. (Bulletin No. 67, Bureau of Chemistry.) Price 10 cents.

The Principal Household Insects of the United States. By L. O. Howard and C. L. Marlatt, with a chapter on Insects Affecting Dry Vegetable Foods. By F. H. Chittenden. Pp. 131, pls. 64. (Bulletin No. 4, new series, revised edition, Division of Ento-

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Tuberculosis. By M. Dorset, M. D. Pp. 566-578.

Virulence of the Bovine Tuberculosis Bacillus for Monkeys and the Effect of Tuberculins Made from Tuberculosis Bacilli Derived from Different Animals. By A. E. de Schweinitz, Ph. D., M. D., Chief of Biochemic Division, Bureau of Animal Industry, and E. C. Schroeder, M. D. V., Superintendent of Experiment Station, Bureau of Animal Industry. Pp. ii, 579-582.

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Irrigation in Utah. By R. C. Gemmel, State Engineer of Utah, and George L. Swendsen, Professor of Civil Engineering, Agricultural College of Utah. Pp. iv, 197-218, pls. 12. [Reprinted] from U. S. Department of Agriculture, Office of Experiment Stations Bulletin No. 86.

#### FARMERS' BULLETINS.

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Game Laws for 1902. A Summary of the Provisions Relating to Seasons, Shipment, Sale, and Licenses. By T. S. Palmer and H. W. Olds, Assistants Biological Survey. Pp. 56, figs. 3, (Farmers' Bulletin No. 160.)

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Dodge, Special Agent for Fiber Investigations. Pp. 16. (Farmers' Bulletin No. 27.)

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Souring of Milk and Other Changes in Milk Products. Prepared in the Office of Experiment Stations. Pp. 23. (Farmers' Bulletin

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Entomologist. [Reprinted from Bulletin 33, Office of Experiment

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Agrostologist. Pp. 20, fig. 1. (Farmers' Bulletin No. 50, revised edition.)

How to Grow Mushrooms. By William Falconer. Under the supervision of the Division of Vegetable Physiology and Pathology.

Pp. 20, figs. 14. (Farmers' Bulletin No. 53.)

The Soy Bean as a Forage Crop. By Thomas A. Williams, Assistant Agrostologist. Prepared under the direction of the Agrostologist. With an appendix on Soy Beans as Food for Man. By C. F. Langworthy, Ph. D., Office of Experiment Stations. Pp. 24. fig. 5. (Farmers' Bulletin No. 58.)

Asparagus Culture. By R. B. Handy, Division of Publications. Pp. 40, figs. 17. (Farmers' Bulletin No. 61.)

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figs. 9. (Farmers' Bulletin No. 63.)

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Hog Raising in the South. By S. M. Tracy, M. S. Formerly Director of the Mississippi Agricultural Experiment Station. Pp. 40. (Farmers' Bulletins No. 100.)

Southern Forage Plants. Compiled from the publications of the Division of Agrostology by F. Lamson-Scribner, Agrostologist. Pp. 48, figs. 14. (Farmers' Bulletin No. 102.)

Experiment Station Work—XI. Prepared in the Office of Experiment Stations. A. C. True, Director. Pp. 32, figs. 5. (Farmers' Bulletin No. 103.)

Notes on Frost. By E. B. Garriott, Professor of Meteorology, Weather Bureau. Pp. 24. (Farmers' Bulletin No. 104.)

Experiment Station Work—XIII. Prepared in the Office of Experiment Stations. A. C. True, Director. Pp. 32, figs. 3. (Farmers' Bulletin No. 107.)

Farmers' Reading Courses. (Abridgment of Bulletin No. 72, Office of Experiment Stations by L. H. Bailey.) Pp. 20. (Farmers' Bulletin No. 109.)

Sheep, Hogs, and Horses in the Pacific Northwest. I. Sheep Husbandry, by James Withycombe, V. S., Vice-Director of the Oregon Experiment Station; II. Hog Raising, by Hiram T. French, M. S., Agriculturist of the Idaho Experiment Station; III The Horse Industry, by S. B. Nelson, D. V. M., Professor of Veterinary Science in the Washington Agricultural College. Pp. 28, figs. 2. (Farmers' Bulletin No. 117.)

Experiment Station Work—XV. Prepared in the Office of Experiment Stations. A. C. True, Director. Pp. 31, figs. 5. (Farmers' Bulletin No. 119.)

Protection of Food Products from Injurious Temperatures. By H. E. Williams, Chief Clerk, Weather Bureau. Pp. 26. (Farmers'

Bulletin No. 125.)

The Principal Insect Enemies of Growing Wheat. By C. L. Marlatt, M. S., First Assistant Entomologist. Pp. 40, fig. 25. (Farm-

ers' Bulletin No. 132.)

Tree Planting on Rural School Grounds. By Wm. L. Hall, Assistant Superintendent of Tree Planting, Bureau of Forestry. Pp. 32, figs. 17. (Farmers' Bulletin No. 134.)

Earths Roads. By Maurice O. Eldridge, Assistant Director, Public Road Inquiries. Pp. 24, figs. 20. (Farmers' Bulletin No. 136.)

Principals of Nutrition and Nutritive Value of Food. By W. O. Atwater, Ph. D., Special Agent in Charge of Nutrition Investigations, Office of Experiment Stations. Prepared under the supervision of the Office of Experiment Stations. A. C. True, Director. Pp. 48, charts 2. (Farmers' Bulletin No. 142, Revised edition.)

Winter Forage Crops for the South. By Carleton R. Ball, Assistant Agrostologist, Grass and Forage Plant Investigations, Bureau of Plant Industry. Pp. 36, figs. 24. (Farmers' Bulletin No. 147.)

of Plant Industry. Pp. 36, figs. 24. (Farmers' Bulletin No. 147.) Clearing New Land. By Franklin Williams, Jr., Farmer and Horticulturist, Fairfax County, Va. Pp. 24, figs. 7. (Farmers' Bulletin No. 150.)

Dairying in the South. By S. M. Tracy, M. S., Formerly Director of the Mississippi Agricultural Experiment Station. Pp. 48, figs.

4. (Farmers' Bulletin No. 151.)

How Insects Affect Health in Rural Districts. By L. O. Howard, Entomologist. Pp. 20, figs. 16. (Farmers' Bulletin No. 155.)

#### PUBLICATIONS OF THE WEATHER BUREAU.

(For the publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau.)

Monthly Weather Review. Vol. XXX, No. 5. May, 1902. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 245–292, figs. 13, charts 8, pls. 1. (W. B. No. 270.) Price 20 cents; \$2 per year.

Price 20 cents; \$2 per year.

Monthly Weather Review. Vol. XXX, No. 6. June, 1902. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 293-340, figs. 3, charts 8. (W. B. No. 271.) Price

20 cents; \$2 per year.

#### Charts of the Weather Bureau—

Climate and Crop Bulletin (series of 1902), reporting temperature and rainfall, with reference to their effect on crops. (Nos. 24, 25, 26, 27, and 28 for the month of September, 1902.)

Daily Weather Map, showing weather conditions throughout the United

States and giving forecasts of probable changes.

Jos. A. ARNOLD,

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James Wilson, Secretary of Agriculture. can grapes—Condimental and medicinal cattle and poultry foods—Feeding rice meal to pigs—Dressing and packing poultry—The curing of cheese—An improved cow stall.

#### CIRCULARS OF INFORMATION.

#### BUREAU OF ANIMAL INDUSTRY.

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Circular No. Nodular Tæniasis of Fowls. Pp. 3.

Circular No. 4.—Crossing Improved Breeds of Swine with the Common Hogs of Florida. Pp. 3.

Circular No. — The Direct Transmission of Infectious Enterohepatitis in Turkeys. Pp. 8.

This circular discusses the nature of the disease sometimes called blackhead.

Circular No. 6.—Black Quarter. Pp. 4.

Circular No. 7.—Actinomycosis, or Lumpy Jaw. Pp. 4.

Circular No. 8.—Injuries to Cattle from Swallowing Pointed Objects. Pp. 4.

Circular No. 17.—Exports of Animals and Their Products. Pp. 3.

Circular No. 19.—Factory Cheese and How it is Made. Pp. 8.

Circular No. 22.—List of Officers and Associations Connected with the Dairy Interests of the United States and Canada for 1898. Pp. 8.

Circular No. 23, Second Revision.—Directions for the Use of Blackleg Vaccine. Pp. 8, figs. 3.

Circular No. 24.—Colored Spots in Cheese. Pp. 6.

Circular No. 25.—State Standards for Dairy Products. P. 1.

Circular No. 26.—Officials, Associations, and Educational Institutions Connected with Dairy Interests of the United States for the Year 1899. Pp. 8.

Circular No. 27, Revised.—Scales of Points for Judging Dairy Breeds of Cattle. Pp. 16, fig. 1.

Circular No. 28.—Letters Relating to the Distribution of Vaccine. Pp. 9.

Circular No. 29.—Officials, Associations, and Educational Institutions Connected with the Dairy Interests of the United States for the Year 1900. Pp. 10.

Circular No. 31, Revised.—Blackleg: Its Nature, Cause, and Prevention. Pp. 23, fig. 1.

Circular No. 32.—The Imperial German Meat-Inspection Law. (In English and German.) Pp. 19.

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Circular No. 34.—Notes on Parasites—55-57. Pp. 4.

Circular No. 35.—Treatment for Roundworms in Sheep, Goats, and Cattle. Pp. 8.

#### DIVISION OF BIOLOGICAL SURVEY.

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Circular No. 28.—Directory of State Officials and Organizations Concerned with the Protection of Birds and Game. Pp. 8.

Circular No. 29.—Protection and Importation of Birds under Act of Congress Approved May 25, 1900. Pp. 6.

Circular No. 30.—Wild Animals and Birds which May be Imported without Permits. P. 1.

Circular No. 31.—Information Concerning Game Seasons, Shipment, and Sale. Pp. 20.

Circular No. 32.—Directions for the Destruction of Prairie Dogs. Pp. 2.

Circular No. 33.—Protection of Birds and Game, Directory of State Officials and Organizations for 1901. Pp. 10.

Circular No. 34.—Laws for the Protection of Birds and Game in the District of Columbia. Pp. 8.

#### BUREAU OF CHEMISTRY.

Circular No. 1.—The Manufacture of Sorghum Sirup. Pp. 3.

Circular No. 3, Revised.—Proposed Reforms in Fertilizer-Inspection Laws. Pp. 4.

Circular No. 5.—Chemical Examination of Canned Meats. Pp. 7.

Circular No. 7.—Outline of Work on Foods and Feeding Stuffs for 1901. Pp. 3.

#### DIVISION OF ENTOMOLOGY.

Circular No. 2.—The Hop Plant Louse and the Remedies to be Used Against It. Pp. 7, pl. 1, figs. 5.

Circular No. 4.—The Army Worm. Pp. 5, figs. 3.

Circular No. The Carpet Beetle, or "Buffalo" Moth. Pp. 4, fig. 1.

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Circular No. 10.—The Harlequin Cabbage Bug, or Calico Back. Pp. 2, fig. 1.

Circular No. 11—The Rose Chafer. Pp. 4, fig. 1.

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Circular No. 16.—The Larger Cornstalk Borer. Pp. 3, figs. 3.

Circular No. 17.—The Peach Tree Borer. Pp. 4, fig. 1.

Circular No. 18.—The Mexican Cotton-boll Weevil. Pp. 8, figs. 5. [Revision of Circular No. 14, printed in two editions—English and Spanish.]

Circular No. 19.—The Clover Mite. Pp. 4, fig. 1.

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Circular No. 26.—The Pear Slug. Pp. 7, figs. 4.

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Circular No. 28.—The Boxelder Plant-bug. Pp. 3, fig. 1.

Circular No. 29.—The Fruit-tree Bark-beetle. Pp. 8, figs. 4.

Circular No. 31.—The Striped Cucumber Beetle. Pp. 7, figs. 2. Circular No. 32.—The Larger Apple-tree Borer. Pp. 12, figs. 3.

Circular No. 33.—Remedial Work Against the Mexican Cotton-boll Weevil. Pp. 6.

Circular No. 34—House Ants. Pp. 4, figs. 3.

Circular No. 35.—House Flies. Pp. 8, figs. 6.

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Circular No. 37.—The Use of Hydrocyanic Acid Gas for Fumigating Greenhouses and Cold Frames. Pp. 10, figs. 3.

Circular No. 38.—The Squash-vine Borer. Pp. 6, figs. 2.

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Circular No. 42.—How to Control the San Jose Scale. Pp. 6.

Circular No. 43.—The Destructive Green Pea Louse. Pp. 8, figs. 3.

#### OFFICE OF EXPERIMENT STATIONS.

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Circular No. 27.—Statistics of Agricultural Colleges and Experiment Stations. Pp. 18.

Circular No. 28, Revised.—Broom Corn. Pp. 4.

Circular No. 33.—Civil Service in the Department of Agriculture. Pp. 10.

Circular No. Some Books on Agriculture and Sciences Related to Agriculture, Published 1896–1898. Pp. 45.

Circular No. 39.—Methods of Teaching Agriculture [third report]. Pp. 7.

Circular No. 40.—Land-Grant and Other Colleges and the National Defense. Pp. 15.

Circular No. 41.—Methods of Teaching Agriculture [fourth report]. Pp. 7.

Circular No. 42.—A German Common School with a Garden. Pp. 7, figs. 3.

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Circular No. 44, Revised.—Agricultural Experiment Stations in the United States. Pp. 11.

Circular No. 45.—Methods of Teaching Agriculture [fifth report]. Pp. 8.

Circular No. 46.—The Functions and Uses of Food. Pp. 10.

Agricultural Education in Scandinavia and Finland. Pp. 15, figs. 4. (Reprinted from Experiment Station Record.)

Agricultural Associations in Belgium. Pp. 21. (Reprinted from Experiment Station Record.)

List of Publications of the Office of Experiment Stations on the Food and Nutrition of Man. Pp. 6.

#### SECTION OF FOREIGN MARKETS.

Circular No. 2.—American Dried Apples in the German Empire. Pp. 3.

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Circular No. 8.—The Manchester District of England as a Market for American Products. Pp. 8, fig. 1.

Circular No. 9.—Imports and Exports for 1893–1896. Pp. 9.

Circular No. 10.—Course of Wheat Production and Exportation in the United States, Canada, Argentina, Uruguay, Russia, and British India from 1880 to 1896. Pp. 8.

Circular No. 13.—Distribution of the Principal Agricultural Exports of the United States During the Five Years Ended June 30, 1896. Pp. 24.

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Circular No. 21.—Agricultural Imports and Exports, 1894–1898. Pp. 16.

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Circular No. 23.—Agricultural Imports and Exports, 1896–1900. Pp. 16.

#### DIVISION OF FORESTRY.

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(See also Division of Botany.)

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Circular No. 5.—Cowpeas. Pp. 11.

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Circular No. 7.—The Gram, Chick-Pea, or Idaho Pea. Pp. 5, fig. 1.

Circular No. 8.—Experiments in Range Improvement. Pp. 5, fig. 1.

Circular No. 9—Wild Garlie. Pp. 8, figs. 3.

Circular No. 11.—The Flat Pea. Pp. 6, figs. 3.

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Circular No. 26.—Rescue Grass. Pp. 4, fig. 1.

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Circular No. 31.—Bermuda Grass. Pp. 6, figs. 2.

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Circular No. 36.—List of Publications of the Division of Agrostology. Pp. 8.

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Circular No. 11.—The Vitality of Seed Treated with Carbon Bisulphid. Pp. 5.

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Circular No. 14.—Dodders Infesting Clover and Alfalfa. Pp. 7, figs. 2.

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Circular No. 22.—The Bur, or Globe, Artichoke. Pp. 6, fig. 1.

Circular No. 23.—The Lebbek or Siris Tree. Pp. 4, figs. 2.

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Circular No. 25.—The Seed of Beardless Brome Grass. Pp. 5, fig. 1.

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Circular No. 29.—Chicory Growing. Pp. 12, figs. 3.

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Circular No. 3.—Notes on Peach Culture. Pp. 10, figs. 4. SECTION OF SEED AND PLANT INTRODUCTION.

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Circular No. 2.—The Cultivation of Znaim Cucumbers. Pp. 4.

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Circular No. 17.—New Spraying Devices. Pp. 4, figs. 3.

Circular No. 18.—A New Wheat Industry for the Semiarid West. Pp. 8, figs. 2.

#### DIVISION OF PUBLICATIONS.

No. 179.—List of Publications of the Department of Agriculture for Sale by the Superintendent of Documents. Pp. 36. (Revised and corrected to August 1, 1901.)

No. 218.—The Publication Work of the Department of Agriculture as Affected by the Law of January 12, 1895. Pp. 4.

No. 247.—List of Farmers' Bulletins and Circulars of Information Available for Distribution. Pp. 20. (Revised and corrected to January 1, 1902.)

Monthly List of Publications.

This list is issued on the last day of each month and contains the titles of all publications issued by the Department of Agriculture during the month. The Monthly List is mailed regularly to all persons who request to have their names enrolled for that purpose.

Circular No. 1.—Organization of the Department of Agriculture, 1901–1902. Pp. 20.

#### OFFICE OF ROAD INQUIRY.

Circular No. 14.—Addresses on Road Improvement. Pp. 15.

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Circular No. 17.—Origin and Work of the Darlington Road League. Pp. 6.

Circular No. 18.—Report of Committee on Legislation, Adopted by the State Good Roads Convention held in Richmond, Va., October 10 and 11, 1895. Pp. 6.

Circular No. 19.—Traffic on the Country Roads. Opinions of Representative Men. Pp. 4.

Circular No. 21. — Methods of Constructing Macadamized Roads. Pp. 12.

Extract from a report prepared by the Chief Engineering Inspector of the Local Government Board of Great Britain.

Circular No. 22. — Appeal for State Organization in Tennessee. Pp. 3.

Circular No. 23.—Money Value of Good Roads to Farmers. Pp. 4. Circular No. 24.—Highway Maintenance and Repairs. Pp. 16.

Highway taxation; comparative results of labor and money systems; contract system of maintaining roads.

Circular No. 25.—Brick Paving for Country Roads. Pp. 7, figs. 6. Circular No. 27.—Cost of Hauling Farm Products in Europe. Pp. 12.

Circular No. 28.—Addresses on Road Improvement in Maine, North Carolina, New York, and Illinois. Pp. 26.

Circular No. 29.—The Forces which Operate to Destroy Roads, with notes on road stones and problems therewith connected. Pp. 14, pls. 4.

Circular No. 30.—Repairs of Macadam Roads. Pp. 14.

Circular No. 32.—State Aid to Road Building in Minnesota. Pp. 14. Circular No. 34.—The Social, Commercial, and Economic Phases of

the Road Subject. Pp. 8.

Circular No. 35.—Road Improvement in New York.

#### OFFICE OF THE SECRETARY.

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Circular No. 3.—Progress of Southern Agriculture. Pp. 12.

Circular No. 4.—Experiments on Living Animals. Pp. 3.

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Circular No. 6.—Number, Status, and Compensation of Employees in the Department of Agriculture. Pp. 4.

Circular No. 7.—Possible Influence of Importation of Hawaiian Sugar on Beet-Sugar Production in the United States. Pp. 4.

Circular No. 8, Revised.—Cooperative Grass and Forage-Plant'Investigations with State Experiment Stations. Pp. 14.

Circular No. 9.—Collection and Distribution of Seed: Field Work. Pp. 11.

#### BUREAU OF SOILS.

Circular No. 3.—The Soils of the Pecos Valley, New Mexico. Pp. 7.

Circular No. 4.—Soils of Salt Lake Valley, Utah. Pp. 11, fig. 1.

Circular No. 5.—Bulk Fermentation of Connecticut Tobacco. Pp. 10.

Circular No. 8.—Reclamation of Salt Marsh Lands. Pp. 10.

#### DIVISION OF STATISTICS.

Circular No. 1.—Acreage, Production, and Value of Principal Farm Crops in the United States, 1866 to 1895, with Other Data as to Cotton and Wool. Pp. 8.

Circular No. 2.—The Wheat Crop of the World for 1895. Pp. 2.

Circular No. 3.—The Farmers' Interest in Finance. Pp. 15.

Circular No. 6.—Cereal Crops of 1896. Pp. 12.

Circular No. 8.—The Cotton Crop of 1896-97. Pp. 4.

Circular No. 10.—The Brazos River (Texas) Flood of June-July, 1892, and Its Effect on the Agriculture of the Submerged Region. Pp. 8.

Circular No. 11.—The World's Grain Crops of 1899. Pp. 8.

Circular No. 12.—Changes in Railroad Freight Classifications. Pp. 43.

Circular No. 14.—Estimates of Russian Crops. Pp. 11, map.

#### MISCELLANEOUS CIRCULARS.

Circular No. 1.—The Castor Oil Plant. Pp. 4.

Circular No. 2.—The Mississippi River Flood. Pp. 6.

Circular No. 3.—The Mississippi River Flood [second report]. Pp. 4.

Opinions of Scientific Men with Regard to the Proposition for a Director-in-Chief of Scientific Bureaus in the Department of Agriculture. Pp. 12.

#### EXTRACTS.

[Reprinted from the Yearbook for 1894.]

- 2. Education and Research in Agriculture in the United States. Pp. 35.
- 7. Mineral Phosphates and Fertilizers. Pp. 16, figs. 2.
- 10. Hawks and Owls from the Standpoint of the Farmer. Pp. 17, pls. 3, figs. 4.
- 11. The Crow Blackbirds and Their Food. Pp. 15, fig. 1.
- 15. Some Practical Suggestions for the Suppression and Prevention of Bovine Tuberculosis. Pp. 13.
- 18. Pure Seed Investigations. Pp. 20, figs. 9.
- 19. The Grain Smuts: Their Cause and Prevention. Pp. 12, figs. 8.
- 20. Grasses as Sand and Soil Binders. Pp. 16, figs. 11.
- 21. Sketch of the Relationship Between American and Eastern Asian Fruits. Pp. 6.
- 25. State Highways in Massachusetts. Pp. 8.
- 27. Tobacco Soils of Connecticut and Pennsylvania. Pp. 13, figs. 7.
- 28. Truck Lands of the Atlantic Seaboard. Pp. 15, figs. 3.
- 29. Conditions in Soils in the Arid Region. Pp. 15, figs. 3.
- 30. Weather Conditions of the Crop of 1894. Pp. 5, figs. 2.
- 31. Three Articles on Roads. Pp. 22, pls. 2, figs. 7.
  - 1. Best Roads for Farmers and Farming Districts.
  - 2. State Highways in Massachusetts.
  - 3. Improvement of Public Roads in North Carolina.

[Reprinted from the Yearbook for 1895.]

- 37. The Meadow Lark and the Baltimore Oriole. Pp. 12, figs. 2.
- 38. Hemp Culture. Pp. 8.
- 42. Work of the Department of Agriculture as Illustrated at the Atlanta Exposition. Pp. 20, fig. 1, pls. 3.
- 44. (Part 2.) Butter Substitutes. Pp. 8.
- 47. Small Fruit Culture for Market. Pp. 12, fig. 1.
- 50. Pear Blight: Its Cause and Prevention. Pp. 6.
- 52. Two Hundred Weeds: How to Know and Kill Them. Pp. 18.
- 55. Pineapple Industry in the United States. Pp. 14, pl. 1, figs. 6.
- 58. Four Articles on Grasses. Pp. 42, figs. 14.
  - 1. Canadian Field Peas.
  - 2. Grass Gardens.
  - 3. Forage Conditions of the Prairie Regions.
  - 4. Grasses of Salt Marshes.

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- 60. Timothy in the Prairie Region. Pp. 8, figs. 2.
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